'ATENT COOPERATION TREATY Data Entry **Docket Entry** Docket Cross Off Previously Entered 312016 From the INTERNATIONAL SEARCHING AUTHORITY No Docketing Req. □ ELITE To: NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT TESTA, HURWITZ & THIBEAULT, LLP THE WRITTEN OPINION OF THE INTERNATIONAL Attn. Greenhalgh, Duncan A. RECEIVE DEARCHING AUTHORITY, OR THE DECLARATION High Street Tower 125 High Street Boston, MA 02110 APR 0 5 2005 UNITED STATES OF AMERICA GOODWIN PROCTER LLP (PCT Rule 44.1) Date of mailing (day/month/year) 01/04/2005 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below RIB-010PC International filing date International application No. (day/month/year) PCT/US2004/036146 29/10/2004 Applicant RIB-X PHARMACEUTICALS, INC. 1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the When? International Search Report; however, for more details, see the notes on the accompanying sheet. International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2

acts for entry into the national phase before those designated Offices.

Guide, Volume II, National Chapters and the WIPO Internet site.

Authorized office

date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

NL-2280 HV Rijswijk

Federico Bonomelli

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

months.

NO ... S TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continues)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

'ATENT COOPERATION TREAT'

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
RIB-010PC	ACTION as well as, where applicable, item 5 belo						
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month year)						
PCT/US2004/036146	29/10/2004	30/10/2003					
Applicant							
		·					
RIB-X PHARMACEUTICALS, INC.							
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
This International Search Report consists	of a total of sheets.						
X It is also accompanied by	a copy of each prior art document cited	in this report.					
Basis of the report							
	international search was carried out on t ess otherwise indicated under this item.	he basis of the international application in the					
The international this Authority (Rul		translation of the international application furnished to					
b. With regard to any nucleo	otide and/or amino acid sequence disc	closed in the international application, see Box No. I.					
2. Certain claims were fou	2. Certain claims were found unsearchable (See Box II).						
3. Unity of invention is lack	3. Unity of invention is lacking (see Box III).						
4. With regard to the title ,		•					
X the text is approved as su	bmitted by the applicant.						
the text has been establis	hed by this Authority to read as follows:	•					
		•					
5. With regard to the abstract,							
X the text is approved as su	X the text is approved as submitted by the applicant.						
the text has been established; according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. With regard to the drawings,							
a. the figure of the drawings to be published with the abstract is Figure No.							
as suggested by the applicant.							
as selected by thi	as selected by this Authority, because the applicant failed to suggest a figure.						
	as selected by this Authority, because this figure better characterizes the invention.						
b. In one of the figures is to be published with the abstract.							

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No T/US2004/036146

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C07H17/00 C07H17/08 A61K31/7	7048 A61K31/7052 A61P	31/04			
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS	SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07H A61K						
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)			
EPO-Internal, CHEM ABS Data						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.			
Α	WO 03/070174 A (SYMPORE GMBH; BUF MICHAEL; GUSE, JAN-HINRICH; GUTKE HANS-JURGEN;) 28 August 2003 (200	E,				
A :	WO 99/63937 A (ADVANCED MEDICINE, INC; GRIFFIN, JOHN, H; PACE, JOHN, L) 16 December 1999 (1999-12-16) cited in the application					
A	US 6 034 069 A (OR ET AL) 7 March 2000 (2000-03-07) cited in the application					
	·					
	ner documents are listed in the continuation of box C.	χ Patent family members are listed	n annex.			
,	tegories of cited documents:	"T" later document published after the inte				
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international *E* earlier document but published on or after the international *E* earlier document but published on or after the international						
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim of the considered to involve an inventive step when the document is taken alone which so cited to establish the publication date of another claim of the considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention						
'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one						
later than the priority date claimed *&* document member of the same patent family						
Date of the actual completion of the international search Date of mailing of the international search report 23 March 2005 01/04/2005						
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (24.70, 24.70) 24.000 Tr. 24.00						
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Bardili, W				

INTERNATIONAL SEARCH REPORT

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International Application No CT/US2004/036146

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03070174	Α	28-08-2003	AU	2003219770	Δ1	09-09-2003
WO 030/01/4	Λ	20 00 2003	CA	2476423		28-08-2003
			EP	1483277		08-12-2004
			WO	03070174		28-08-2003
			US	2004087517		06-05-2004
•			US	2004087517		23-09-2004
						
WO 9963937	Α	16-12-1999	AU	4426399		30-12-1999
			AU	4426699		30-12-1999
			AU	4428899		30-12-1999
			AU	4430599		30-12-1999
			AU	4543699		30-12-1999
			AU	4543799		30-12-1999
			AU	4543899		30-12-1999
			AU	4551699		30-12-1999
			AU	4551799		30-12-1999
			AU	764401		21-08-2003
i			AU	4551899		30-12-1999
İ			AU	4674599		30-12-1999
			AU	4677199		30-12-1999
			AU	4677399		30-12-1999
			AU	4818099		30-12-1999
·			CA	2316999		16-12-1999
			CA	2318547		16-12-1999
			CA	2319080		16-12-1999
			CA	2319120		16-12-1999
			CA	2319474		16-12-1999
			CA	2319477		16-12-1999
			CA	2319495		16-12-1999
			CA	2319761		16-12-1999
			CA	. 2320241		16-12-1999
			CA	2320290		16-12-1999
		•	CA	2321162		16-12-1999
			CA	2321166		16-12-1999
			CA	2321190		16-12-1999
İ			CA	2321274		16-12-1999
			EP	1083919		21-03-2001
			EP	1083920		21-03-2001
		*	EP	1085845		28-03-2001
			EP	1085861		28-03-2001
	•		EP	1083894		21-03-2001
			EP	1086065		28-03-2001
			EP	1085846		28-03-2001
			EP	1124528		22-08-2001
			EP	1003541		31-05-2000
			EP	1005356		07-06-2000
			EP	0989857		05-04-2000
			EP	1085891		28-03-2001
			EP	1143991		17-10-2001
1			EP	1085893		28-03-2001
			JP	2002517422		18-06-2002
			JP	2002517423		18-06-2002
			JP	2002517458		18-06-2002
			JP	2002517465		18-06-2002
			JP	2004512255		22-04-2004
ĺ			NZ	505979		26-09-2003
			SG	80631	A1	22-05-2001
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INTERNATIONAL SEARCH REPORT

nation on patent family members

International Application No

CT/US2004/036146

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6034069 A	. 07-03-2000	NONE	

Form PCT/ISA/210 (patent family annex) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 30.10.2003 PCT/US2004/036146 29.10.2004 International Patent Classification (IPC) or both national classification and IPC C07H17/00, C07H17/08, A61K31/7048, A61K31/7052, A61P31/04 Applicant RIB-X PHARMACEUTICALS, INC. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/036146

	Box No. I	Basis of the opinion
1.	With regar	d to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	langu	opinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).
2.		od to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type of	material:
	□ as	sequence listing
	□ tat	ple(s) related to the sequence listing
	b. format o	of material:
	□ in	written format
	□ in	computer readable form
	c. time of	iling/furnishing:
	□ ∞	ntained in the international application as filed.
	☐ file	ed together with the international application in computer readable form.
	☐ fur	nished subsequently to this Authority for the purposes of search.
3.	has b copie:	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
4.	Additional	comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/036146

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
the entire international application,					
claims Nos. 15-22 with respect to industrial applicability					
the said international application, or the said claims Nos. 15-22 relate to the following subject matter which does not require an international preliminary examination (specify):					
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
no international search report has been established for the whole application or for said claims Nos.					
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
ndard					
ndard					
sting, if in computer readable form only, do C-bis of the Administrative Instructions.					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-25

No: Claims

Inventive step (IS)

Yes: Claims

1-25

No: Claims

Industrial applicability (IA)

Yes: Claims

1-14,23-25

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 15-22 relate to medical treatment of the human body and hence to subject-matter covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claim 1 pertains to erythromycin derivatives having a specific 5-membered heterocyclic ring HET linked to the desosamin part of the macrolide. The HET moiety apparently corresponds to a partial structure of the antibiotic linezolid.

Compounds comprising a macrolide moiety together with a linezolid moiety are comprised in the state of the art as represented by WO-A-99 63 937 (see fig. 26). In these compounds the linezolid part is connected to the macrolide either directly or via the cladinose. The claimed compounds which do not show these structural particularities are novel over the reference.

In view of the considerable structural difference between the known antibiotics and the claimed compounds the antibiotic activity of the claimed compounds could not have been expected at the filing date of the application. Thus, inventive step is acknowledged.

Re Item VIII

Certain observations on the international application

1. Claim 23 relates to a method of synthesising a compound according to claim 1, but does not indicate any technical features of the synthesis. The claim therefore lacks clarity within the meaning of Article 6 PCT.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/036146

2. The expression "prodrugs" frequently used in the claims is a functional expression rendering the claimed subject-matter unclear.